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(54) Title: ACTIVE NOISE CONTROL SYSTEM AND METHOD
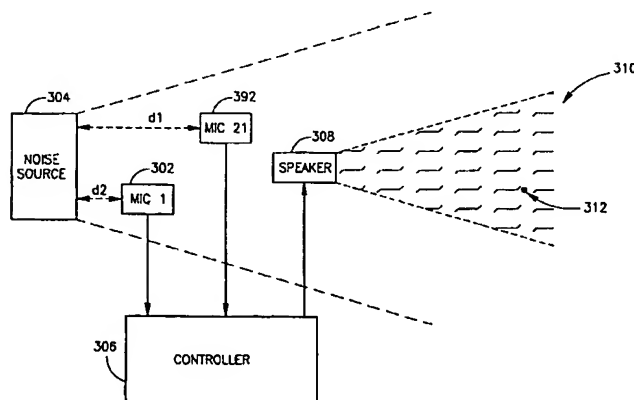
(57) Abstract: Embodiments of the present invention provide a method, device and system for Active Noise Control (ANC). An ANC system for controlling a noise produced by a noise source, may include according to an exemplary embodiment, an acoustic sensor to sense a noise pattern and to produce a noise signal corresponding to the sensed noise pattern, an estimator to produce a predicted noise signal by applying an estimation function to the noise signal, and an acoustic transducer to produce a noise destructive pattern based on the predicted noise signal. An ANC system for controlling a noise produced by a noise source, may include according to another exemplary embodiment, a primary acoustic sensor to sense a noise pattern and to produce a corresponding primary noise signal; at least one secondary acoustic sensor to sense a residual noise pattern and to produce at least one secondary noise signal corresponding to the residual noise pattern sensed by the at least one secondary microphone, respectively, wherein the at least one secondary acoustic sensor is separated from the noise source by a distance larger than a distance between the primary acoustic sensor and the noise source; and a controller to control an acoustic transducer to produce a noise destructive pattern based on the primary noise signal and the at least one secondary noise signal.